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AGRICULTURAL.



From the Journal of Agriculture.

THE GRAMMAR OF AGRICUL TURE.

BY PROF. J. J. MAPES, NEWARK, N. J. NO. II.

may be dissipated by burning, and that of Iron, which is not injurious to plants. the parts left as ashes constituted the pose to treat in the present number. The of former crops, animals, &c.

The inorganic constituents of the soil, constituents are found in soils.

ly with each other.

these inorganic constituents are, and constituents.

(Oil of Vitrol) Phosphoric Acid, and and Soda are plentifully found in plants. Alumni.

that in general use among farmers, and scientific farmer. which so troubles the citizen to under- Phosphoric Acid, composed of Potash, Oxygen, Nitrogen, &c., &c.

Potasu is a necessary constituent of crops. many plants, and exists in most soils. By leaching the ashes of plants with wa- from a soil or exists in too small a pro- row of the coulter, and then all the clods in separate papers.

Sona. -This substance has many proof Potash, while many require both to secure their success. When Soda is combined with Chlorine, it forms common Salt.

Acid, Sulphate of Lime, (Plaster of Pa- by the ascending moisture, and not as a ris;) with Phosphoric Acid, Phosphate necessary constituent.

injurious to crops.

and it is then called Sulphuret of Iron, earth's surface for the use of plants. (Iron Pyrites,) or Oxide of Iron combined with Sulphuric Acid, as Sulphate of Iron, (Copperas,) and if in excess in this latter form, will render the soil sterile; such sterility, however may be over-In our opening number of this series come by the use of Lime, converting the we gave some account of the organic Sulphuric Acid of the Copperas into portion of plants and soils. The organ-Sulphate of Lime, (Plaster of Paris,) ic portions were stated to be those which and thus separating it from the Oxide

Oxide of Manganese is not presinorganic portions, and of these we pro- ent in all soils, and the ashes of many plants do not contain it; indeed, many organic portions, as before stated, are suppose its presence less important than principally received from the atmost that of any other inorganic constituent, phere, being placed there by the decay and hence it is seldom or never added to

the compost heap. SILICA is the base of flint and of comand therefore of plants, are all to be mon sand, and forms a large portion of found as components of rocks, and by most soils; it is also found in plants in their gradual crumbling or decay, soils large quantities. Thus the glazed coatare formed, and hence these inorganic ing on the outside of the rattan, bamboo, corn-stalk, sugar-cane, and indeed of all Some of these are soluble in water; the stems of plants to a greater or less others require the influence of the air to degree, is Silex, and to it may be attrirender them soluble; others, by combi- buted the strength of woody fibre. Alning, are rendered soluble, although though Silex is not soluble in water awhen uncombined, they are compara- lone, it is rendered soluble by the prestively inert for the use of plants: - and ence of Potash, Soda, Lime, or Magnesall these conditions are brought about ia, and the influence of the atmosphere. by stirring the soil, admitting the at- When oats and other straw crops lodge, mosphere to circulate freely among its it is due to the absence of soluble Silica particles, and by mixing them intimate- to give strength to the straw, and such results never occur in soils properly Much the larger portion of plants is manured. By peeling off the outside organic, while the greater mass of the of corn-stalks, and burning them in a soil is inorganie; still, if any one of the crucible, we may obtain a button of plass, inorganic constituents found in the ashes which is a combination of Silex and Potof a plant, when burned be absent from ash, (Silicate of Potash,) without the the soil in which we may wish to grow presence of which in the soil a corn crop the same plant, it cannot succeed, and it cannot fully succeed, however well it is therefore important to know what may be supplied with all the necessary change?-Not alone by the expenditure Lea body."

The following are found in plants absorbed by water, and has the power and soils: -Potash, Soda, Lime, Mag- of bleaching vegetable substances in its nesia, Oxide of Iron, Oxide of Munga- uncombined state. With Sola, Chlonese, Silica, Chlorine, Su'phuric Acid, rine forms common Salt, and both it

SULPHURIC ACID is a combination of Our readess who fear technical terms, Sulphur with Oxygen, and is found com- by three more, subsoiling every furrow, have only to add the above list to the bined with many substances in the soil. four organic substances in our first arti- With Lime, it forms Plaster of Paris; half deep. This alone has the effect to to be able to appear in the Senate once cle, and they have all the hard names with Magnesia, Epsom Salts; with Ox- restore the fertility to a degree that will more, to utter his last admonitions abefore them which are requisite to be ide of Iron, Copperas; and its more re-treble the crops. He has every prosunderstood in the study of high-farming. cent use as a solvent for bones, renders Certainly this list is not so alarming as it a valuable adjunct in the hands of the

stand when visiting the country. The Phosphorus and Oxygen. This subnumes of agricultural tools and terms, stance, combined with Lime and other now in common use, are as difficult to bases, is among the most important of learn as the names of the chemical con- the inorganic constituents of plants and land was plowed and subsoiled last fall, and proclaming himself its inflexible year for every man, woman and child. stituents of plants and soils. Among soils, and exists in large quantities as eighteen inches deep. This spring was champion, he will at every hazard pro- While in the British Empire only one these we might name the words Furrow, Phosphate of Lime in the bones of ani- well plowed with two horses, and now nounce against the scheme of interven- is published for every 25,000; in Persia ing such fair proofs of the matter Plow, Southe-snath, Mould-board, and a mals. The use of bone-dust as a mathousand other words, which to the mer- nure is well known, and the recent dis- following preparation. A coulter— make this exposition of his views can- three copies to every 1,000,000. chant or lawyer brought up in a city, covery of native bone-earth at Dover, would be equally unintelligible with N. J., and at Crown Point, N. Y., can-

ter, we get a solution of potash, and portion, full crops of wheat cannot be when this solution is evaporated to dry-grown. Thus the wheat crops of Ohio ness, and the residue is heated to red- have fallen from 35 to 15 bushels per aness, to destroy impurities, it will take ere, and of New York from 30 to 121 up Carbonic Acid, and become Pearl bushels, simply because the Phosphate through the season would surprise some by Abram Verhooven; but for nearly a News of the 26th, says—A little boy, Ash. Soils from which all the Potash of Lime and Potash of the soil has been of those who never plow till after the century after that, newspapers were "few has been removed by former croppings, used up by injudicious croppings, withwill not raise wheat and many other out proper amendments. The applicaplants, and in such cases its addition is tion of a proper dressing of Phosphate by a little scratching of a shovel plow in Venice, when it was called Una Gazett, ly looking on at a quarrel going on beindispensable. The modes of replacing of Lime dissolved in Salphuric Acid, drawn by a poor mule. this and other constituents will be given with Potash, will enable most of these lands to produce their former crops, and the expense would be less than one-half perties similar to those of Potash, and a the cost of barn-yard manure alone,

spoken of above. ALUMINA is nearly as plentiful in soils as Silex, and in clayey soils even in greater quantity. This substance is al-Lime is so well known as to render a so found in many plants, but recent minute description unnecessary. When chemical researches have led to the becombined with Carbonic Acid it forms lief that its presence in plants is merely CHALK or MARBLE; with Sulphurie mechanical, being carried into the plant

of Lime, and in this state is the princi- | Alumina has the strange property of the establishmet of an industrial univer- Court Journal printed the previous year | Defalcation .- On last Friday it was pal component of bones. When Lime is receiving and retaining the gaseous pro- sity, in which the science of agriculture at Oxford, whither the Court had retired made known by his own voluntary confesfreed from impurity, by burning, it is ducts of decomposition until required for and the principles of mechanism shall be on account of the plague. In 1680, sion, that Mr. Samuel Morgan, Teller in called Caustic Lime, and if slaked will the use of growing plants, and hence practically taught. The fund for this King Charles prohibited the printing of the Exchange Bank, at Petersburg, had absorb one-fourth of its weight of water, those soils which are fairly charged with purpose now at the command of the Newspapers and Pamphlets. The first embezzled the funds of the institution to stance is necessary for the growth of is not the fact; for if a barrel of sand be school purposes. -NAT. INT. plants, but if in excess it renders soils intimately mixed with Alumina, the nearly sterile. That class of Limestone brown liquor of the barn yard may be called Dolomites contain Magnesia in ex- filtered through it, and be rendered both cess, and the continued application of colorless and inodorous; but when the the lime made from this stone to soil is sand alone is used without Alumina, no such effect is produced; -indeed, if the IRON is not found in the metalic state, earth's surface did not contain Alumina but combined with Oxygen, as Oxide of and Carbon, all the soluble filth arising Iron, (rust,) and in this state it exists from decomposition would long since in the soil. Sometimes Iron exists in have been resident in our wells and the soil in combination with Sulphur, springs, instead of being retained at the

From the Plow.

VIRGINIA FARMING.

General B. Peyton, of Richmond, purchased a farm seven or eight miles above the city, on James river, some two or three years ago, which was in the same condition as thousands of others in ed them as worthless, or rather so worn out and unproductive as not to be worth have emigrated from Virginia to newer and more fortile lands in some of the and servants upon a soil which produc- To few is it granted to die as CHATHAM the paper. Much speculation has been amination he found it to be a cedar keg. ed prejudice against deep-rooting his He who now glances over that familiar the land;"-though if practised, it cer- the eagle eye of Cathoun-the face hagtainly could not have done so more ef- gard and worn, yet bright with intellifeetually than the ruinous system which gence. The grand brow and cavernous he has pursued to ruin himself and land eye of WEBSTER, full of lurid light, scowl

the rich wheat and clover fields of Gen. quick eye of HENRY CLAY pass like a with his fields, like a desert waste by and Cass sits alone, unremoved and un

of capital for lime, plaster, bone dust, how they may be replaced when absent! CHLORINE is a gass which is readily guano, or other fertilizers, but because

> "Plowed deep hile sluggards sleep. Producing corn to sell and keep."

He has procured the best plows that could be obtained, and used them with four horses to a turning plow, followed in the stiff bottom land a foot and a peet now of twenty bushels of wheat to which now, says the correspondet, threatthe acre, and counts confidently on ten en the permanency of our institution. barrels (50 bushels) of corn. His meth- The correspondent adds: ed of preparing land for corn is so much are carefully raked off by small irontooth rakes, which are far superior in is about three hundred years old, the first sighs. every respect to hoes for that purpose. of which we have any record having been The ease with which such land is tended printed at Anvers, in Flanders, in 1550,

the whole country?

LEELTELEGY.

graphic account of some of the great men of the United States' Senate:

ed old pines and broom straw, and but and Calhoun, but Clay is ambitious indulged in touching the origin of the On opening it he found a cocounut enlittle else. And why? Because it had of meeting the same end. A great word Newspaper. The most plausible volved in a kind of gum or resinous subbeen scratched, not plowed year after change is gradually taking place in our suggestion which we have seen is that substance; this he also opened, and year, until the surface was exhausted of Public Councils, by the removal of those which derives it from the conjunction of found a parchment covered with Gethic fertility; and, however great the amount who long stood as conspicious landmarks the four letters indicating the cardinal Characters, nearly illegible, and which of richness beneath, it was a deep-root- in the Sonate Chamber and the Forum. points of the compass, to wit: plows into the earth-"it would ruin scene, meets no more the lion port, and no more on the spectators! and now, last and clearly suggesting the bringing to-Here, now, within a stone's threw of lingerer of the three, the spare form and gether of all parts of the world. land as his, covered with that worthless land of shadows. The big and burly saidproduct-the most worthless scrubby form of Benton, a strong man in his "Greatends from small beginnings rise," dia, addressed to Ferdinand and Isabelpines and broom straw-contrasting sphere, has also vanished from that scene, tae side of a garden of fruits and flowers. | moved, amidst the "noise and confusion' By what magic has he wrought this which now characterize that once digni

year 1782.

Mr. Clay's desire to re-appear in the Senate.—The Washington correspondent of the Philadelphia North American gainst the danger of the new doctrines

in contrast with theirs, who plant first out his thoughts; and while maintaining, newspapers pupliched in the United of taking impressions on the forms and sow the land afterwards, that we as he has always done heretofore, the States, annually, at 412,880,000, being of that paper, tried it on the hearts will state it. In the first place, the cause of liberty throughout the world, equal to sixteen and half copies per April 25th is being planted after the tion. The time at which he means to one to every 20, 186; in Russia, only which is somewhat of the nature of a not now be definitely fixed, and must small subsoil plow-is run twelve inches depend upon his physical condition; but loosened up by an iron tooth harrow; make it, and he will make it, even if in When Phosphate of Lime is absent and the corn covered by a double fur- the attempt he should die on the floor."

corn is up, when they break out the and far between." It was not untl the middle-if it can be called breaking- year 1620 that the Newspaper appeared and others are setting in Virginia, are take to date the Newspaper from Vencausing a great revolution in that State. ice; for more than thirty years prior to Old field lands are bought often at great- its appearance there, the English Merfew plants will accept of Soda in place which now produces the minimum ratio ly advanced prices; and people are bewho shall limit its vast advantages to year 1631. The first regular English pears that it was committed by one of A project is on foot in the south- tinued three years, when it was merged, the abdomen, injured the intestines, an

without becoming moist to the touch. Alumina are found to retain manures State has accrued from the action & fore- daily paper after the Revolution in 1688, the amount of \$10,000. The sureties in MAGNESIA exists in many rocks, and better than more sandy soils. Many sight of the constitutional convention as- was the Orange Intelligencer, and in the his official bond immediately made an in most soils. When combined with have attributed this action to the me- sembled at Kaskaskia in August, 1818, year 1724, there were three dailies in arrangement by which the Bank is se-Sulphuric Acid it forms Sulphate of chanical tightness of the soil consequent in accepting certain propositions of Con- London, besides various weeklies and cured against loss. On Sunday, Mr. Magnessia, (Epsom Salts.) This sub- upon the presence of Alumina, but such gress in relation to certain lands for tri-weeklies. The oldest English Pro- Morgan was arrested. Yestrday he was vincial paper still in existence is the examined before the Mayo, and reman-Nottingham Journal, commenced in ded for further trial before the Hustings 1714, and is, therefore, at this time. one court. Mr. Morgan had heretofore borne hundred and thirty-eight years old. The a respectable character, and was generoldest London Journal still in existence is ally a lmired for the kindness of his dis-THE GREAT MEN OF THE SENATE. the Morning Herald, in its eighty-sixth position. Doubtless he was driven to the -The Washington Corespondent of the year. The Times, the most powerful deed by the pressure of circumstances, Charleston Mercury gives the following Newspaper in the world, was established which he wanted moral firmness to resist. in 1787, and first printed by steam in 1814. Just one hundred and one years before this last date stamp tax on News-"HENRY CLAY is failing fast, and be- papers was instituted. The origin of ville, of barque Chieftain, of Boston, coming a very old man. He probably this stamp tax may not generally be writes to the editor of the Louisville came here in the hope of recruiting his known. The Newspapers and cheap Varieties, that he put into Gibralter on shattered and failing powers; but a heavy pamphlets were the vehicles of the most the 27th of August last to repair some hand rests upon him which he cannot of the atacks upon the Ministry, and to damage his vessel had sustained, and shake off. Since the last session he has suppress or limit their circulation, Lords while waiting, himself and two of his broken down wofully. The collapse of Bolingbroke and Oxford laid a tax of a passengers crossed the straits to Mt. the high excitement of the strife that halfpenny upon every issue. It does Abylus, on the African coast, to shoot, then sustained him, and the utter anni- not oppear that the plan was effectual. and pick up geological specimens. Behilation of the high hopes he nourished, -The stamp tax is still in existence in fore returning the breeze had freshened have suddenly aged him, and what but a England, and in the year 1840, there so much as to render it necessary to put short time since, looked like an old, but were nearly eighty millions of stamps more ballast in the boat; and one of the that state, whose owners have abandon- still strong temple-graceful yet in its issued. The idea entertained by some crew lifted what he supposed to be a proportions, firm still upon its base, is people that this stamp is, "a tax on rock, but from its extreme lightness and crumbling fast into a ruin. He has been knowledge," is scarcely just, inasmuch singular shape was induced to call the cultivating. For this reason, thousands confined to his room for the greater part as it entitles the Newspaper or sheet bear- attention of the Captain to it, who at of the session, and has recently been ing it to free transmission in the British first took it for a piece of pumice stone, compelled to got Paida loiphia to recruit. mails, thereby grately facilitating such but so completely covered with barna-Western States, for the sole reason they It is more than doubtful whether he will transmission. As it is paid by the pub- cles, and other marine animalculæ as to could no longer support their families ever till his seat in the Senate again. lisher, it of course enhances the price of deny that supposition. On further ex-

The Newspaper had, it is true, a very Peyton, can be seen the same kind of shadow on the wall, on the way to the humble beginning, but truly has it been

> tential instrument of human progress. ships could not possible survive the tem-Even in monarchal countries it has been pest another day; that they then were termed the "fourth estate" in the realm, between the Western Isles and Spain; while in this Republican land it is the that two like narratives were written first and greatest power. In no other and thrown into the sea, in case the car-A strange Coincidence.-Mr. Web- country is it half so extensively diffused, aval should go to the bottom that some ster, Mr. Calhun, Mr. Cass, Mr. Benton, Here every man has his Newspaper - mariner would pick up one or the other and Mr. Van Buren were all born in the and happy is he who has not more than of them. he can read.

> > "The folio of four pages happy work, Which not e'en critics criticize"-

states that Mr. Clay has a great desire chief source of information to more than half the civilized population of the globe. from the writer that he would guard his Who, then, shall measure its influence? Southern Standard.

Newspapers in the United States.— Holdridge's Statistical Almanac for the Printer's Freaks.—The printers "He would rather speak than write year 1852, estimates the number of in the Plymouth Rock office. tired

not but add materially to our grain deep, twice in a row, and all the ground he is stern and resolved in his purpose to ignac's contract of Marriage, with a life. Now then let them "cirkelate young and beautiful heiress, was to have the documents."- Spindle City. been signed the night he was arrested by Louis Napoleon's troops. The for-THE NEWSPAPER.—The newspaper tress of Ham will echo many desperate

> Shooting-The Charleston Evening about nine or ten years of age, named Joseph McGorty, was shot in the abdo- Tennessee 1 in 86, North Carolina men by a ball from a pistol, while quietbecause the price of reading it was a little tween some negro and white boys in Mar-Such examples as General Peyton coin of that name. It is therefore a mis- ket street yesterday morning. The wound, it is feard, will prove fatal.

ginning to find it is more profitable to of Queen Elizabeth. This was at the about 40 years of age, belonging to improve their own farms, than it is to period of the Spanish Armada. It was Mrs. A P Allender, residing in Bull run off in pursuit of new ones. Truly irregular and of brief duration. The first street, was shot yesterday about 1 o'clok, the spirit of improvement is abroad; French Newspaper was published in the in Market, near Meeting street. It apnewspaper appeared in 1663. It was number of boys with a pistol, loade called the Public Intelligencer, and con- with slugs or balls, two of which entered ern and central portions of Illinois for in 1669 into the London Gazette, a causing, it is apprehended a fatal wound

South-Side Democrat.

A Singular Relic.—Capt. D'Auberneither he nor any one on board was able to decipher. He however found on shore an Armenian book merchant, who was said to be the most learned man in Spain, to whom he took it, who, after learning the circumstances of its discovery, offered \$300 for it, which offer Capt. D'A. declined. "He then," says the letter, "read word for word, and translated into French as he read each sentence-a short but concise account of the discovery of Cathay, or Farther Inand now the Newspaper is the most po- la, of Castile and Arragon, saying the

The strange document was signed by Christopher Columbus in a bold and dashing hand. It also bore the date 1493, and consequently has been floatas Cowper so amiably described it, is the ing over the Atlantic for 358 years.

The letter closes with an assurance treasure safe until his return to the United States, which would be in April or May next.

of two fair damsels. After several settings up, they succeeded in takthat this week the minister of the place was called in and worked off the whole four forms in two folio A Cruel Contre-temps .- Gen. Cava- editions, leaving them locked up for

> Mortality in the States -The census of 1850 shows the following proportion of deaths to the whole population in the following States: Vermont 1 in 100, Iowa 1 in 94, Georgia 1 in 91, Michigan 1 in 87, and Alabama 1 in 85, South Carolina t in 83. Maine 1 in 77, New Jersey 1 in 71. Virginia 1 in 74. IIlinois and Delaware 1 in 63. Arkansas 1 in 70, Texas 1 in 69, Rhode Island 1 in 66, Kentucky 1 in 64, Maryland 1 in 60, Massachusetts 1

There is a man in Troy. N. Y. so mean that he has never any hirg to fit him-in purchasing boots or breeches, he always takes the biggest pair he can get for the money.